

**Project Design Phase-I**  
Proposed Solution  
*template*

<i>Date</i>	19 September 2022
<i>team ID</i>	PNL2022LMID36162
<i>Project Name</i>	Project - Fertilizers Recommendation System For Disease Prediction
<i>Maximum Marks</i>	2 Marks

***Proposed Solution template:***

*Project team shall fill the following information in proposed solution template.*

<b><i>S.No.</i></b>	<b><i>Parameter</i></b>	<b><i>Description</i></b>
1.	<i>Problem Statement (Problem to be solved)</i>	Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. To find what diseases that the plant is having by its leaf.
2.	<i>Idea / Solution description</i>	An automated system is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. Deep learning techniques are used to identify the diseases and suggest the precautions that can be taken for those diseases.
3.	<i>Novelty / Uniqueness</i>	It has UI(user interface)which makes communication between human and machine easy &DL(deep learning)which makes computer vision on image processing easier and ,pattern recognition to understand which disease is affected to the plant.
4.	<i>Social Impact / Customer Satisfaction</i>	It help the customer to know what fertilizer has to be given in the fields as soon the disease is affected to the plants. Makes the food productivity large .
5.	<i>Business Model (Revenue Model)</i>	The business model is hinged on a multiple-revenue stream approach which results in three value propositions: a) provision of sustainable b) increased supply of environmentally-friendly fertilizer c) provision of recyclables. Strategies to be considered a) partnerships ; b) market segmentation; c) production innovation.
6.	<i>Scalability of the Solution</i>	The solution given increases the food productivity that is increases in quantity and decrease the food scarcity.